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Alejandro Adem* (adem@math.ubc.ca). *Infinite loop spaces arising from spaces of representations.*

We discuss joint work with J.Gomez, J.Lind and U.Tillmann showing how spaces of representations can be assembled to form new infinite loop spaces that naturally filter classical loop spaces such as BU and BO. We discuss the notion of nilpotent K-theory associated to them as well as recent results about the ring of coefficients for commutative complex K-theory (obtained by S.Gritschacher). (Received January 30, 2017)